

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-33. (previously cancelled)

34. (currently amended) A telecommunication system, comprising:

a circuit-based wireless telephony network providing wireless access to the system wherein said wireless telephony network comprises a first protocol engine and a first database;

a packet-based Internet telephony network in communication with said wireless telephony network, for providing Internet telephony access to the system wherein said Internet telephony network comprises a second protocol engine and a second database; and

a gateway controller in communication with said wireless telephony network and said Internet telephony network;

wherein said ~~wireless~~ Internet telephony network is adapted for receiving a 1st signal for initiating communication between said wireless telephony network and said Internet telephony network, and for detecting a circuit-based wireless network communication at the time of initialization, and for sending a 2nd signal for obtaining the location of said gateway controller;

wherein said ~~Internet~~ wireless telephony network is adapted for receiving said 2nd signal and for sending a 3rd signal for providing the location of said gateway controller;

wherein said ~~wireless~~ Internet telephony network is further adapted for receiving said 3rd signal and for providing a 4th signal for finding and connecting to said gateway controller; and

wherein said gateway controller is adapted for receiving said 4th signal and for providing a

5th signal for connection with said ~~Internet~~ wireless telephony network₅.

35. (currently amended) A method for providing telecommunication in a system between a circuit-based wireless telephony network for providing wireless access to the system, wherein the wireless telephony network comprises a first protocol engine and a first database, a packet-based Internet telephony network in communication with the wireless telephony network for providing Internet telephony access to the system wherein the Internet telephony network comprises a second protocol engine and a second database, and a gateway controller in communication with the wireless telephony network and the Internet telephony network, comprising:

receiving a 1st signal at the ~~wireless~~ Internet telephony network for initiating communication between the wireless telephony network and said Internet telephony network₁;

detecting a circuit-based wireless network communication during said initiation step by the ~~wireless~~ Internet telephony network₁;

sending a 2nd signal for obtaining the location of the gateway controller by the ~~wireless~~ Internet telephony network₁;

receiving the 2nd signal at the ~~Internet~~ wireless telephony network₁;

sending a 3rd signal for providing the location of the gateway controller by the ~~Internet~~ wireless telephony network₁;

receiving said 3rd signal at the ~~wireless~~ Internet telephony network₁;

sending a 4th signal by the ~~wireless~~ Internet telephony network for finding and connecting to said gateway controller₁;

receiving said 4th signal at the gateway controller₁ and

sending a 5th signal by the gateway controller for connection with the ~~Internet~~ wireless

telephony network.

36. (currently amended) A telecommunication system comprising:

a circuit-based wireless telephony network providing wireless access to the system wherein said wireless telephony network comprises a first protocol engine and a first database, wherein said circuit-based wireless telephony network comprises a Mobile Telecommunications System;

a packet-based Internet telephony network in communication with said wireless telephony network for providing Internet telephony access to the system wherein said Internet telephony network comprises a second protocol engine and a second database; and

a gateway controller for providing an interface between at least said wireless telephony network and said Internet telephony network, wherein said interface comprises a signal gateway and voice data communications, wherein said gateway controller is controlled by a call processing engine and is configured to perform vocoding functions for translating between different data coding schemes;

wherein said ~~wireless~~ Internet telephony network is adapted for receiving a 1st signal for initiating communication between said wireless telephony network and said Internet telephony network, and for detecting a circuit-based wireless network communication at the time of initialization, and for sending a 2nd signal for obtaining the location of said gateway controller;

wherein said ~~Internet~~ wireless telephony network is adapted for receiving said 2nd signal and for sending a 3rd signal for providing the location of said gateway controller;

wherein said ~~wireless~~ Internet telephony network is further adapted for receiving said 3rd signal and for providing a 4th signal for finding and

connecting to said gateway controller; and

wherein said gateway controller is adapted for receiving said 4th signal and for providing a 5th signal for connection with the ~~Internet~~ wireless telephony network.

37. (previously presented) The system of 36, wherein said Mobile Telecommunications System comprises a Global System for Mobile Communications network.

38. (previously presented) The system of 36, wherein said Mobile Telecommunications System comprises a Universal Mobile Telecommunications System network.

39. (previously presented) The system of 36, wherein said interface further includes a packet-based mobile switching center.

40. (previously presented) The system of 36, wherein said interface further includes one or more circuit-based base station controllers.

41. (previously presented) The system of 36, wherein said signal gateway is selected from the group comprising a data signal transport gateway or a data signal transport gateway or a media gateway.

42. (previously presented) The system of 36, wherein the telecommunication system does not require utilization of a Public Switched Telephone Network.

43. (previously presented) The system of 36, wherein said Internet telephony network comprises an Internet Protocol network, a Session Initiation Protocol network or a H.323 protocol network.

44. (currently amended) A method for telecommunications between

a) a circuit-based wireless telephony network providing wireless access comprising a Mobile Telecommunications System, wherein the wireless telephony network comprises a first

protocol engine and a first database,

b) a packet-based Internet telephony network in communication with the wireless telephony network for providing Internet telephony access, wherein the Internet telephony network comprises a second protocol engine and a second database; and

c) a gateway controller for providing an interface between at least said wireless telephony network and said Internet telephony network, wherein said interface comprises a signal gateway and voice data communications, wherein said gateway controller is controlled by a call processing engine and is configured to perform vocoding functions for translating between different data coding schemes, comprising:

receiving a 1st signal at the ~~wireless~~ Internet telephony network for initiating communication between the wireless telephony network and said Internet telephony network;₁

detecting a circuit-based wireless network communication during said initiation step by the ~~wireless~~ Internet telephony network;₁

sending a 2nd signal for obtaining the location of the gateway controller by the ~~wireless~~ Internet telephony network;₁

receiving the 2nd signal at the ~~Internet~~ wireless telephony network;₁

sending a 3rd signal for providing the location of the gateway controller by the ~~Internet~~ wireless telephony network;₁

receiving said 3rd signal at the ~~wireless~~ Internet telephony network;₁

sending a 4th signal by the ~~wireless~~ Internet telephony network for finding and connecting to said gateway controller;₁

receiving said 4th signal at the gateway controller; and

sending a 5th signal by the gateway controller for connection with the
~~Internet~~ wireless telephony network.

45. (previously presented) The method of 44, wherein said Mobile Telecommunications System comprises a Global System for Mobile Communications network.

46. (previously presented) The method of 44, wherein said Mobile Telecommunications System comprises a Universal Mobile Telecommunications System network.

47. (previously presented) The method of 44, wherein said interface further includes a packet-based mobile switching center.

48. (previously presented) The method of 44, wherein said interface further includes one or more circuit-based base station controllers.

49. (previously presented) The method of 44, wherein said signal gateway is selected from the group comprising a data signal transport gateway or a data signal transport gateway or a media gateway.

50. (previously presented) The method of 44, wherein the telecommunication system does not require utilization of a Public Switched Telephone Network.

51. (previously presented) The method of 44, wherein said Internet telephony network comprises an Internet Protocol network, a Session Initiation Protocol network or a H.323 protocol network.

52. (New) A telecommunication system providing wireless telephony communication from an Internet telephony network, comprising:

a circuit-based wireless telephony network providing wireless access to the system

wherein said wireless telephony network comprises a first protocol engine and a first database;

a packet-based Internet telephony network in communication with said wireless telephony network, for providing Internet telephony access to the system wherein said Internet telephony network comprises a module, a second protocol engine and a second database; and

a gateway controller in communication with said wireless telephony network and said Internet telephony network;

wherein said module is adapted for receiving a 1st signal for initiating communication between said wireless telephony network and said Internet telephony network, and for detecting a circuit-based wireless network communication at the time of initialization, and for sending a 2nd signal for obtaining the location of said gateway controller;

wherein said wireless telephony network is adapted for receiving said 2nd signal and for sending a 3rd signal for providing the location of said gateway controller;

wherein said module is further adapted for receiving said 3rd signal and for providing a 4th signal for finding and connecting to said gateway controller; and

wherein said gateway controller is adapted for receiving said 4th signal and for providing a 5th signal for connection with said wireless telephony network.

53. (New) A method for providing wireless telephony communication from an Internet telephony network, comprising:

providing wireless access to a circuit-based wireless telephony network wherein said wireless telephony network comprises a first protocol engine and a first database;

providing Internet telephony access to a packet-based Internet telephony network in communication with said wireless telephony network, wherein said Internet telephony network comprises a module, a second protocol engine and a second database; and

providing communication between said wireless telephony network and said Internet telephony network by a gateway controller, further comprising;

receiving a 1st signal for initiating communication between the wireless telephony network and said Internet telephony network at the module;

detecting a circuit-based wireless network communication during said initiation step by the module;

sending a 2nd signal for obtaining the location of the gateway controller by the module;

receiving the 2nd signal at the wireless telephony network;

sending a 3rd signal for providing the location of the gateway controller by the wireless telephony network;

receiving said 3rd signal at the module;

sending a 4th signal by the module for finding and connecting to said gateway controller;

receiving said 4th signal at the gateway controller; and

sending a 5th signal by the gateway controller for connection with the wireless telephony network.